(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 1 July 2004 (01.07.2004)

PCT

(10) International Publication Number WO 2004/055927 A2

(51) International Patent Classification7:

H01M 8/00

(21) International Application Number:

PCT/EP2002/014246

(22) International Filing Date:

13 December 2002 (13.12.2002)

(25) Filing Language:

English

(26) Publication Language:

English

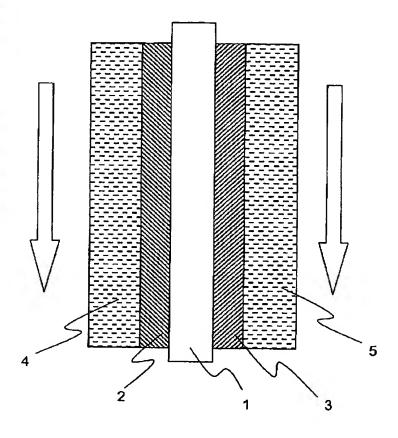
- (71) Applicant (for all designated States except US): PIRELLI & C. S.P.A. [IT/IT]; Via Gaetano Negri, 10, 1-20123 Milano (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ZAOPO, Antonio [IT/IT]; Pirelli Labs S.p.A., Viale Sarca, 222, I-20123 Milano (IT). LOPES CORREIRA TAVARES, Ana Berta [PT/IT]; Pirelli Labs S.p.A, Viale Sarca, 222, I-20123

Milano (IT). **DUBITSKY, Yuri, A.** [RU/IT]; Pirelli Labs S.p.A, Viale Sarca, 222, 1-20123 Milano (IT).

- (74) Agents: GIANNESI, Pier, Giovanni et al.; Pirelli & C. S.p.A., Viale Sarca, 222, I-20126 Milano (IT).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK,

[Continued on next page]

(54) Title: FUEL CELL AND MEMBRANE-ELECTRODE ASSEMBLY THEREOF



(57) Abstract: Fuel cell comprising a membrane-electrode assembly including an anode, a cathode, and a polymer electrolyte membrane interposed between the anode and the cathode, wherein said polymer electrolyte membrane comprises a sulfonated polysulfone polymer.

WO 2004/055927 A2

WO 2004/055927 A2

TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

without international search report and to be republished upon receipt of that report